

Figure 1

Figure 2

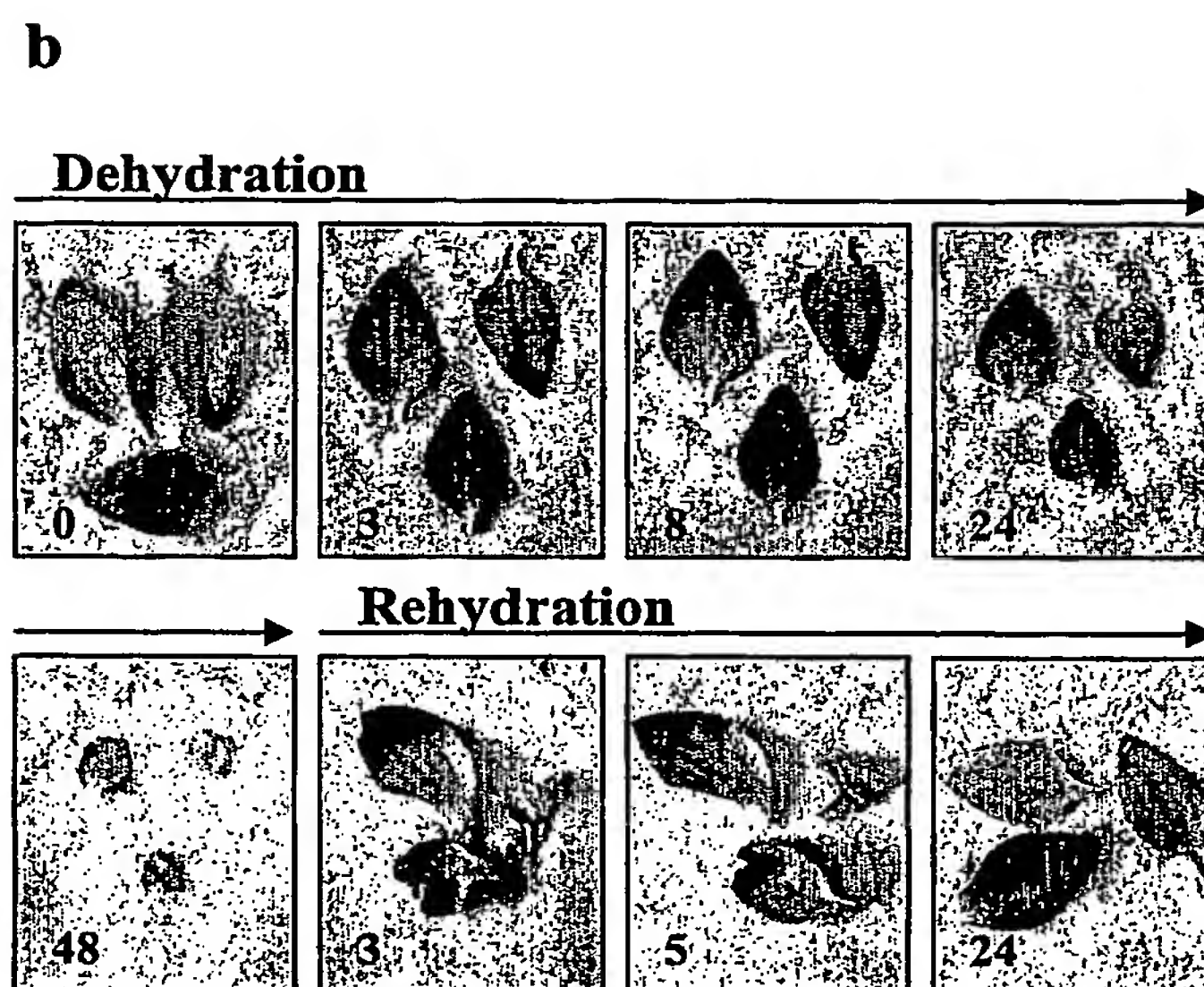


Figure 3

	Signal Peptide	"Insertion"
Cp1Exp1	MAFLGRIFATFLAITSSSHFAFYGGD	GGWT-PAHATFYGGSDASGTMGGACGYGNLYSQGYGTNTAALSTALFNNGSCGSCFEFEKACASSISGGGKVCVH
AAG60095	MLVTFELQATLGAMTSHVNGYAG	GGW-PAHATFYGGSDASGTMGGACGYGNLYSQGYGTNTAALSTALFNNGSCGACFEHFCQ---NDGKVCCLP
AAB97125	MAIKLAIFFTFVIFSLADARIPGIYS	GGAWQ-PAHATFYGGSDASGTMGGACGYGNLYSQGYGTNTAALSTALFNNGSCGACFEHFCQ---NDPQWCHS
BAB11259	MEFFGKMIIISLSLMMIMWKSVDGYSSG	WV-PAHATFYGGSDASGTMGGACGYGNLYSQGYGTNTAALSTALFNNGSCGACFEHFCQ---DDPKVCCTG
ZmaExp2	MAPRQALAVVWLAALLPFALSRGLRGHHRRAQPHPRPHGAPLGGAWS	PAHATFYGGSDASGTMGGACGYGNLYSQGYGTNTAALSTALFNNGSCGACFEHFCQDAA-GGGGSSCLP
Cp1Exp1	GC-SITVTATNFCPPNNALPNNAGGWCNPPELCHFDLSQPVFQHLAORYRAGIVPSYRRVPCRRGGGIRPTINGHSYFNVLVITNVCGAGDMHVAVSIKGAIT-DWQPSRNWGNWQSNAN	
AAG60095	G--SITVTATNFCPPNNALPNNAGGWCNPPCHFDLSQPVFQHLAORYRAGIVPSYRRVPCRRGGGIRPTINGHSYFNVLVITNVCGAGDMHVAVSIKGAIT-DWQPSRNWGNWQSNAN	
AAB97125	CSPSILITATNFCPPNLAQPSDNGGWCNPPREHFDLAMPVFLAORYRAGIVPSYRRVPCRRGGGIRPTINGHSYFNVLVITNVAGAGDIIVRASVVKGSRT-GWMSLSRNWGNWQSNAN	
BAB11259	G--TITVTGTFNFCPPNFAOANNAAGGWCNPPCHFDLAQPHFLRLAORYRAGIVPSYRRVPCRRGGGIRPTINGHSYFNVLVITNVAGAGDIIVSIKGAIT-RWQSMRNWGNWQSNAN	
ZmaExp2	G--SWVTATNFCPPNNALPSDDGGWCNPPRAHFDMSQPVFQHLAORYRAGIVPSYRRVPCRRGGGIRPTINGHSYFNVLVITNVCGAGDMHVAVSIKGAIT-DWQPSRNWGNWQSNAN	
Cp1Exp1	PNGQRLSFKVTTSDGRTLVSNNVAPPNWVSFGQTFAGAQFN	
AAG60095	LVGQSLSPKAVTSDGRTLVSNNVANAGVSFGQTFAGQRLR	
AAB97125	LVGQALSPKAVTSDGRTLVSNNVPSNWQFGQTFVGNFRV	
BAB11259	LDGQALSPKAVTSDGRTLVSNNVATPRNWSFGQTYIGKQFRAQR	
ZmaExp2	LDGQALSPKAVTSDGRTLVSNNVAPRGWSFGQTFSGAQFN	

Figure 4

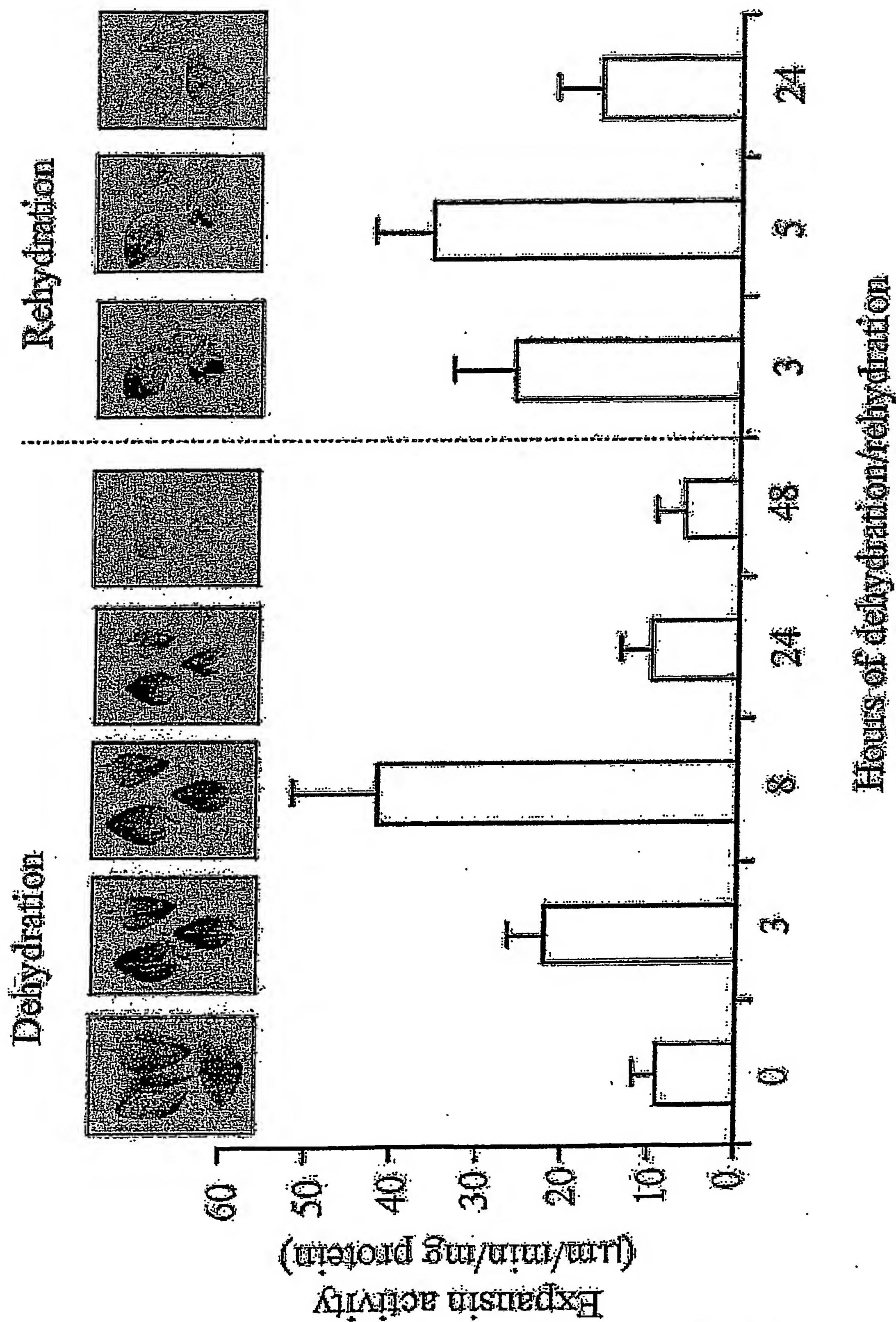


Figure 5

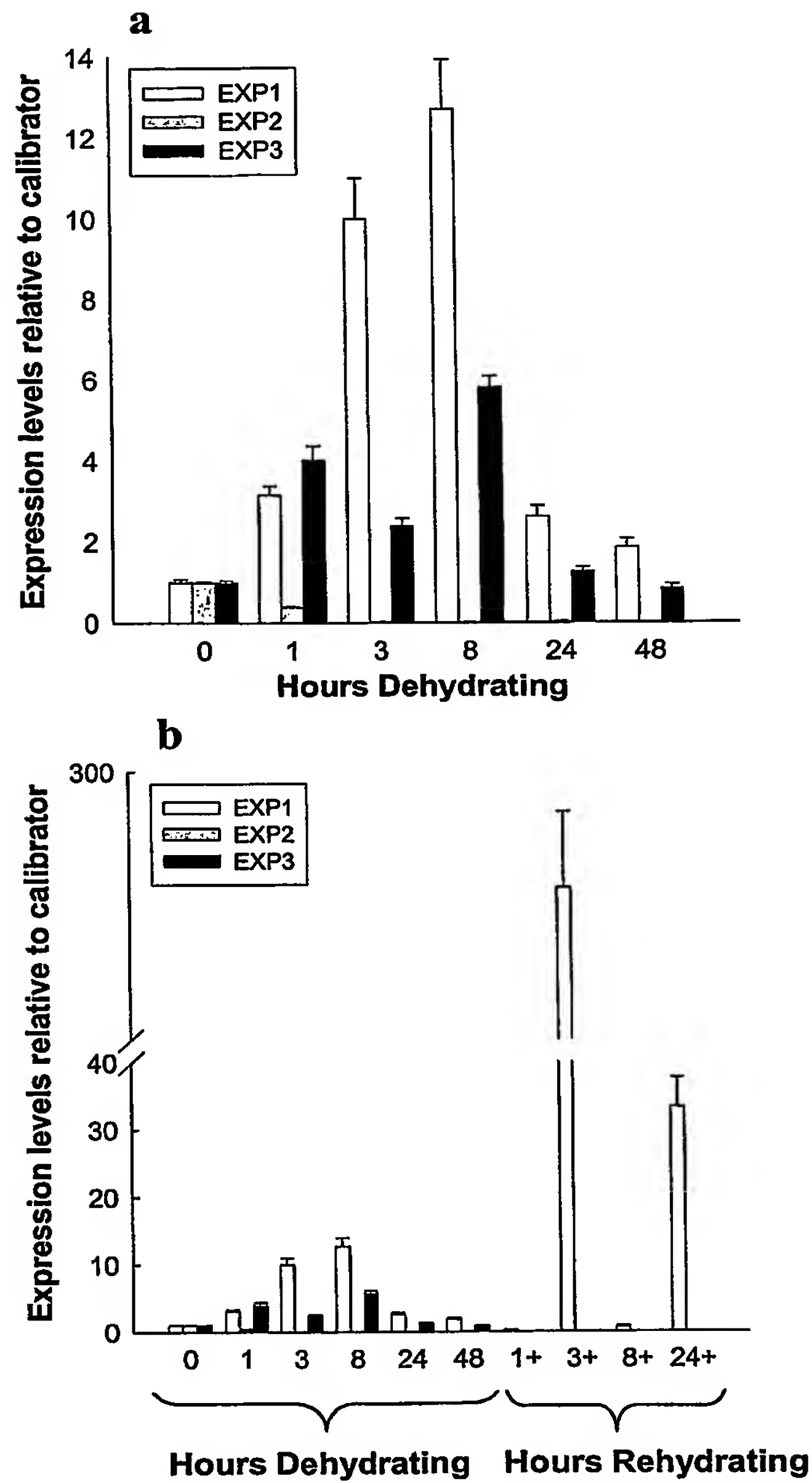


Figure 6a

```
1  atggcggtttc tgggcccgcgcat tattatattttt gcgacctttc tggcgattac cagcagcagc
61  catthttgcgc gcgcgtatta tggcggcgcat ggcggctgga ccgatgcgca tgcgaccttt
121 tatggcggca gcgatgcgag cggcaccatg ggcggcgcggt gcggctatgg caacctgtat
181 agccaggggt atggcaccaa caccgcggcg ctgagcaccg cgctgtttta caacggcctg
241 agctgcggca gctgctttga aattaaatgc gcgagcagca ttagcgggcg cggcaaatgg
301 tgcctgccgg gcggcagcat taccgtgacc gcgaccaact tttgcccgcc gaacaacgcg
361 ctgccgaaca acgcggggcg ctggtgcaac ccgccgctgc agcattttga tctgagccag
421 ccggtgtttc agcatattgc gcagtatcgc gcgggcattg tgccggtgag ctatcgccgc
481 gtgccgtgcc gccgccgcgg cggcattcgc tttaccatta acggccatag ctattttaac
541 ctggtgctga ttaccaacgt gggcgggcgcg ggcgatgtgc atgcggtgag cattaaaggc
601 gcgaccaccg attggcagcc gatgagccgc aactggggcc agaactggca gagcaacgcg
661 aaccggaacg gccagcgccct gagcttttaa gtgaccacca gcgatggccg caccctggtg
721 agcaacaacg tggcgccgcc gaactggagc tttggccaga cctttgcggg cgcgcagttt
781 aac
```

Figure 7A CPEXPA1

```
MAFLGRIIFATFLAITSSSHFARAYYGGDGGWTDAAHATFYGGS
DASGTMGGACGYGNLYSQGYGTNTAALSTALFNGLSCGSCFEIKCASSISGGGKWCLPGGSI
TVTATNFCPPNNALPNNAGGWCNPPLQHFDLSQPVFQHIAQYRAGIVPVSYRR
VPCRRRGGIRFTINGHSYFNLVLITNVGGAGDVHAVSIKGATTDWQPMsrNWGQNQS
NANPNGQRLSFKVTTSDGRTLVSNNVAPPNWSFGQTFAGAQFN
```



Figure 6b

```
1   gcgacctttt atggcggcgg cgatgcgagc ggcaccatgg gcggcgcgctg cggctatggc
61  aacctgtata gcaccggcta tggcaccaac accgcggcgc tgagcaccgc gctgtttaac
121 aacggcctga cctgcggcgc gtgctatgaa ctgacctgca acaacgatcc gcgcggctgg
181 tgcctgagcg gcaccattat ggtgaccgcg accaactttt gcccgccgaa cccgagcctg
241 ccgaacgata acggcggcctg gtgcaacccg ccgcgccagc attttgatct ggcggaaccg
301 gcgttttctgc agattgcgca gtataaagcg ggcattgtgc cggatgaacta tcgccgcgtg
361 ccgtgccaga aaaaaggcgg cattcgcttt accattaacg gccatagctt ttttaacctg
421 gtgctggtga ccaacgtggg cggcgtgggc gatgtgcata gcgtgagcat taaaggcagc
481 aacggcggct ggcagccgct gagccgcaac tggggccaga actggcagag caacagctat
541 ctgaacggcc agagcctgag ctttcagggtg accaccagcg atggccgcac cgtgaccagc
601 tatgatgtgg cgccgcgcgg ctggcagttt ggccagacct ttgaaggcgg ccagttt
```

Figure 7b CPEXPA-2

```
ATFYGGGDASGTMGGACGYGNLYSTGYGTNTAALSTALFNNGLT
CGACYELTCNNDPRGWCLSGTIMVTATNFCPPNPSPNDNGGWCNPPRQHFDLAEPAF
LQIAQYKAGIVPVNYRRVPCQKKGGIRFTINGHSFFNLVLVTNVGGVGDVHSVSIKGS
NGGWQPLSRNWQONWQSN SYLNGQSLSFQVTTSDGRTVTSYDVAPRGWQFGQTFEGGQF
```

Figure 6c

1 tgccatgcga ccttttatgg cggcagcgat gcgagcggca ccatgggagg cgcggtgcggc  
61 tatggcaacc tgtatagcca gggctatggc accaacaccg cggcgctgag caccaccctg  
121 ttttaacaacg gcctggcgtg cggcagctgc tatcaggtgc gctgcgaagg cggcccga  
181 tgggtgcgtgc gcggcggcga tcgcattatt accgtgaccg cgaccaactt ttgcccgcg  
241 aactatgcgc tggcgaacga taacggcggc tgggtgcaacc cgccgcgcca gcattttgat  
301 atggcgcagc cggcgtttgt gcgcattgcy cattatcgcy cgggcattgt gccgattagc  
361 tatcgccgcg tgagctgcgt gaaaaaaggc ggcattcgcc tgaccattaa cggccatagc  
421 tattttaacc tgggtgctggt gagcaacgtg ggcggcagcg gcgatgtgca tgcggtgtgg  
481 attaaaggca gcggcggcgg cccgtggcag gcgatgacc gcaactgggg ccagaactgg  
541 cagagcaaca gctatctgga tggccagagc ctgagcttta ttgtgcgcgc gggcgatggc  
601 cgcaccgtga ccgcgaacga tattgtgccg cgcggctggc agtttggcca gacctttgaa  
661 ggcccgcagt tt

Figure 7c CPEXPA-3

CHATFYGGSDASGTMGGACGYGNLYSQGYGTNTAALSTTLFNNG  
LACGSCYQVRCEGGPKWCVRGGDRIITVTATNFCPPNYALANDNGGWCNPPRQHFDMA  
QPAFVRIAHYRAGIVPISYRRVSCVKKGGIRLTINGHSYFNLVLVSNVGGSGDVHAVW  
IKGSGGGPWQAMTRNWGQNWQSN SYLDGQSLSFIVRAGDGRTVTANDIVPRGWQFGQT  
FEGPQF



Figure 8

